KYOCERA D-801

DUAL CAPSTAN, 3-MOTOR CASSETTE DECK.





MASTERING THE ART OF SOUND

NEVER BEFORE HAS A CA SUCH A MASTER OF T

Never before has the cassette format brought such a true sense of "being there".

The ultimate test, of course, of any audio component lies in the listening. That's all we ask–just listen to the Kyocera D-801 Cassette Deck. Time and again people tell us they have a sense of the audio system dissolving and they're left only with the music.

That's exactly what high fidelity is all about.

If your audio goal is that of *excellence*, then we think you'll be interested in how the D-801 pursues ... and achieves... excellence.

Built for audio perfectionists.

There are those involved with audio that feel the values of static characteristics of cassette decks (such as signal-to-noise ratio and wow and flutter) have just about reached their measurable limits.

At Kyocera, we were determined to surpass those limits wherever possible with the D-801.

In addition, we also set about to improve those characteristics which may not be reflected in actual spec values. Let's call them *dynamic characteristics*.

They may not show in the specs, but they certainly show in the sound. Warm, golden, breathtaking sound that puts you right in the middle of the music!

Listen to the D-801.

It was made for perfectionists.

A matter of tape movement.

Setting specifications and dynamics aside for a moment, let's look at the toughest challenge a cassette deck must face:

Moving the tape across the heads at as nearly a constant speed as possible. Variations in speed, of course, come out in your speakers or headphones as wow and flutter.

Many decks claim a wow and flutter figure of 0.5% WRMS-trouble is, speed variations of 0.05% are clearly audible with piano music (one of the most revealing tests you can give a cassette deck-try it on the D-801 and marvel!).

The D-801 by Kyocera comes through with a remarkably low wow and flutter figure of 0.2% WRMS!

The drive for excellence.

To insure constant speed drive and the least possible wow and flutter, the D-801 uses a two-capstan drive. This configuration provides individual capstans and pinch-rollers for both the takeup and feed reels, thus providing optimum tape tension, smooth running tape, and also assuring the proper tape-to-head pressure. Optimum tape tension also virtually eliminates external shock modulation noise that can sometimes cause tape vibration while in the play or record mode.

The capstans are driven directly by a brushless frequency generated servo motor. Because this motor drives *only* the capstans (many other decks use the motor for multiple purposes), better and more uniform torque is achieved.

Result: that wow and flutter figure of 0.02% WRMS.

A second DC governorless motor is used to drive both the takeup and feed reels, while a similar third motor gently positions the record/playback head against the tape surface. This unique use of a

motor results in long lasting head-to-tape positioning accuracy and maximizes proper head azimuth alignment.

The tape transport incorporates two electromagnetic brakes, one for feed and the other for takeup reel rewind. Their superb braking action protects the tape from stress damage, breakage or distortion when stopping the fast forward or rewind mode.

You have a choice in noise reduction.

The D-801's noise reduction systems were built for the audio purist. It has *two*–Dolby* B & C–so noise reduction can be tailored to program material. Basically, the Dolby B system (recommended for music material of limited dynamic range) reached greatest effectiveness above 4 kHz, reducing noise by about 10 dB. Dolby C (recommended for music material of very wide dynamic range) reaches effectiveness from 1 kHz and above and provides up to 20 dB of NR.

S/N RATIO IMPROVEMENT WITH DOLBY NR

TAPE SELECTOR: SPECIAL DOLBY NR SW: OFF, B-ON, C-ON

+ 20
+ 10
- 0 B
- 10
- 20
- 50 100 200 500 1000 2000 5000 10000 20000

FREQUENCY (Hz)

FREQUENCY (Hz)

The APMR feature.

Automatic Program Mute Recording is a system built into the D-801 that provides 5 second unrecorded gaps between the recorded portions in the tape when in record mode. In playback, these gaps are used for locating the beginning or end of the recorded segments. The 5-second unrecorded gaps are utilized by the auto search feature to stop at the beginning or end of recorded programs. Playback of the

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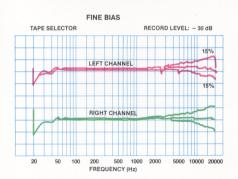
beginning of the program continues for five seconds and automatically advances to the next program unless the play button is activated in order to stop auto search.

It more than meets the needs of the audio perfectionist.

The D-801 goes above and beyond even the fussiest audiophile's needs:

In addition to its feather-touch pushbutton mechanism, automatic memory functions are included for memory stop, auto stop, auto play and auto repeat. Other functions included are shutoff at end of playback, record, fast forward and rewind modes. Complementing these features is an electronic 4 digit display, including counter, elapsed time, and time remaining functions.

Tape selection, bias and equalization are provided for all current tape types, including metal. In addition, fine bias adjustment provides optimum performance from the selected tape brand.



A great head for music.

Exceptional performance is assured by our use of a Sendust alloy record/playback head. It more than meets the needed demand for top-notch performance required by today's metal tape. A built-in

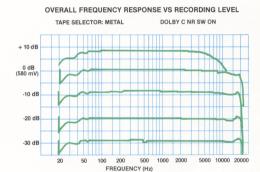
400 Hz calibration tone enables proper adjustment to be made of record/playback levels for each channel.

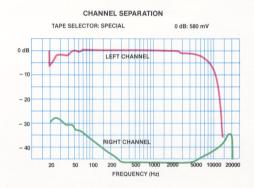
Other convenience features include LED indicators for function modes, L/R channel peak levels, record level balance and output controls, illuminated cassette compartment with viscous damped cassette door and headphone jacks for private listening, as well as over record peak level hold.

Results are what count.

When all is said and done, the sound you get is what you've spent your money for. And sound from the D-801 is peerless. Expressed in performance specifications, it comes out like this:

A frequency response capability with metal tape of 20-22,000 Hz with S/N (A-weighted), 68 dB with Dolby B and 78 dB with Dolby C...plus a superb wow and flutter of 0.02% WRMS with a speed accuracy of $\pm 0.5\%$ and a channel separation of 40 dB.







The complete specification story.

Front panel features

Tape transport: REWind, STOP, Fast Forward, PLAY, PAUSE, RECord, APMR, Auto-Search-all feather-touch pushbuttons. Record level volume-slide controls. Record balance volume-rotary control. Output level control—rotary control.

Tape type selector switch—Normal, CrO₂, metal-pushswitch.

Noise reduction pushswitch—Dolby NR—ON/OFF, Dolby NR—B/C, MPX Fil.—ON/OFF.

Fine bias adjust control—rotary.
Pushswitch: LINE-MIC, Memory off Stop-Replay, Auto Repeat, Rec-calibration, and Power-on/off.

Electronic Digital counter mode selectors. Tape length selector.

Eject button. Headphone jack (6 m/m dia.).

Microphone jacks (6 m/m dia.) for left and right channels.

Separate LED peak level display for left and right channels with over-record peak hold.
LED indicator for Dolby NR-B-on.
LED indicator for Dolby NR-C-on.

Transport function indicators for PLAY, PAUSE, RECord.
Electronic digital tape counter.
Tape selector LED indicators.
Illuminated tape compartment.

Rear panel

AC power cord with plug. Line input and output jacks (pin type). AC convenience outlet (unswitched).

Electrical specifications

1. Recording bias frequency : 105 kHz. AC bias type Erasure system AC.

: Record/playback (sendust).

: Erasure.

4. Overall frequency response ± 3 dB

Metal : 20 Hz to 22 kHz : 20 Hz to 20 kHz CrO, Normal : 20 Hz to 19 kHz

5. Signal-to-nose ratio DIN 45500. 70 μsec. Tape EQ.

(weighted-A)
Dolby NR-B-effect
(CCIR weighted)
Dolby NR-C-effect
(CCIR weighted) : 58 dB. : 10 dB. : 20 dB. 6. Input sensitivity

MIC-10 kOhm LINE-50 kOhm : 0.5 mV. : 70 mV.

7. Output LINE-O VU, Dolby

: 580 mV. NR level Headphone jack : 40 mV.

8. Harmonic Distortion (1 kHz, O VU level) : 1.5%. Separation (at 1 kHz) : 40 dB.

10. Erasure (Band pass filter at 1 kHz) : 70 dB. 11. Fine bias adjustable

range 12. Recording calibration : ±15%.

400 Hz. signal 13. APMR time : 5 seconds (approx.).

Mechanism specifications

1. Motors Capstan drive Head assist

: brushless FG servo. : DC motor governor-

Reel drive : DC motor governorless

2. Wow/flutter (MTT-111 as per WRMS JIS)

: 0.02%. 3. Speed tolerance

(MTT-111) $: \pm 0.5\%.$ 4. Rewind/FF time

required for C-60 : 70 sec.

General specifications

Power requirement Power consumption

: AC 120 V 60 Hz. : 38 Watts.

Dimensions Width : 460 mm (181/8").

: 132 mm (5³/₁₆"). : 308 mm (12¹/₈"). Height Depth : 17.6 lbs. (8 kgs.) Net weight

*Dolby is a registed trademark of Dolby Laboratories, Inc.



